



ENERGY STAR - Addition of Criteria for Product Categories Managed by the U.S. Department of Energy

Additional ENERGY STAR Product Coverage

The product categories noted below will be covered by ENERGY STAR effective January 1, 2003. The time period between the initial announcement and the effective date is to allow the ENERGY STAR program sufficient time to update processes, materials, etc. to reflect these new categories. Note that these criteria cover residential products only.

Manufacturers that wish to qualify and label new product prior to January 1, 2003 may do so by submitting their FTC submissions to James Siegel at D&R International at jsiegel@drintl.com.

Freezers (Residential): Standard-Size

The ENERGY STAR label includes all freezer categories of total volume greater than or equal to 7.75 ft³ to total volume less than or equal to 30 ft³ that exceed the NAECA minimum energy efficiency standards by 10%.

Refrigerators and Refrigerator-Freezers (Residential): Standard-Size

The ENERGY STAR label includes refrigerators and refrigerator-freezers of total volume greater than or equal to 7.75 ft³ to total volume less than or equal to 39 ft³ that exceed the NAECA minimum energy efficiency standards by 10%.

Refrigerators, Refrigerator-Freezers and Freezers (Residential): Compact

The ENERGY STAR label includes all compact refrigerators, refrigerator-freezers, and freezers of total volume less than 7.75 ft³ and 36 inches or less in height that exceed the NAECA minimum energy efficiency standards by 20%.

Refrigerators, Refrigerator-Freezers, Freezers: Manual and Partial-Automatic Defrost

The ENERGY STAR label includes manual and partial-automatic defrost refrigerators, refrigerator-freezers, and freezers under the ENERGY STAR criteria for the respective product categories.

Additional Revision Schedules

Note that all ENERGY STAR qualified refrigerator and refrigerator-freezer categories of total volume greater than or equal to 7.75 ft³ to total volume less than or equal to 39 ft³ that qualify for the ENERGY STAR label as a result of the expanded criteria above will follow the same revision schedule as the existing ENERGY STAR refrigerator category.

Thus, on January 1, 2004, the ENERGY STAR criteria for these categories will increase to 15% more efficient than the NAECA standard. Manufacturers are encouraged to produce and label units that meet the January 1, 2004 level as soon as feasible to avoid market confusion and potential rebate issues during the transition in 2004. The rationale is to avoid market confusion by having multiple revision schedules and/or criteria for the same product categories.

No other ENERGY STAR revisions are currently planned for the refrigerator, refrigerator-freezer, or freezer product categories.

NAECA - Federal Standard

The National Appliance Energy Conservation Act (NAECA), or federal standard, dictates minimum efficiency standards for product categories such as clothes washers, dishwashers, refrigerators, freezers, and room air conditioners. For refrigerators, the federal standard varies depending on the size and configuration of the refrigerator. See below for the current NAECA standards and the ENERGY STAR criteria for each product category.

Category	NAECA July 1, 2001 Maximum Energy Usage in kWh/year	ENERGY STAR level - January 1, 2003	ENERGY STAR level - January 1, 2004
1. Refrigerators and Refrigerator-freezers with manual defrost	$8.82*AV+248.4$	10% more efficient than NAECA or $(7.938*AV+223.56)$	15% more efficient than NAECA or $(7.497*AV+211.14)$
2. Refrigerator-Freezer--partial automatic defrost	$8.82*AV+248.4$	10% more efficient than NAECA or $(7.938*AV+223.56)$	15% more efficient than NAECA or $(7.497*AV+211.14)$
3. Refrigerator-Freezers--automatic defrost with top-mounted freezer without through-the-door ice service and all-refrigerators--automatic defrost	$9.80*AV+276$	10% more efficient than NAECA or $(8.82*AV+248.4)$	15% more efficient than NAECA or $(8.33*AV+234.6)$
4. Refrigerator-Freezers--automatic defrost with side-mounted freezer without through-the-door ice service	$4.91*AV+507.5$	10% more efficient than NAECA or $(4.419*AV+456.75)$	15% more efficient than NAECA or $(4.1735*AV+431.375)$
5. Refrigerator-Freezers--automatic defrost with bottom-mounted freezer without through-the-door ice service	$4.60*AV+459$	10% more efficient than NAECA or $(4.14*AV+413.1)$	15% more efficient than NAECA or $(3.91*AV+390.15)$
6. Refrigerator-Freezers--automatic defrost with top-mounted freezer with through-the-door ice service	$10.20*AV+356$	10% more efficient than NAECA or $(9.18*AV+320.4)$	15% more efficient than NAECA or $(8.67*AV+302.6)$
7. Refrigerator-Freezers--automatic defrost with side-mounted freezer with through-the-door ice service	$10.10*AV+406$	10% more efficient than NAECA or $(9.09*AV+365.4)$	15% more efficient than NAECA or $(8.585*AV+345.1)$

Category	NAECA July 1, 2001 Maximum Energy Usage in kWh/year	ENERGY STAR level - January 1, 2003	ENERGY STAR level - January 1, 2004
8. Upright Freezers with Manual Defrost	$7.55*AV+258.3$	10% more efficient than NAECA or ($6.795*AV+232.47$)	10% more efficient than NAECA or ($6.795*AV+232.47$)
9. Upright Freezers with Automatic Defrost	$12.43*AV+326.1$	10% more efficient than NAECA or ($11.187*AV+293.49$)	10% more efficient than NAECA or ($11.187*AV+293.49$)
10. Chest Freezers and all other Freezers except Compact Freezers	$9.88*AV+143.7$	10% more efficient than NAECA or ($8.892*AV+129.33$)	10% more efficient than NAECA or ($8.892*AV+129.33$)
11. Compact Refrigerators and Refrigerator-Freezers with Manual Defrost	$10.70*AV+299$	20% more efficient than NAECA or ($8.56*AV+239.2$)	20% more efficient than NAECA or ($8.56*AV+239.2$)
12. Compact Refrigerator-Freezer--partial automatic defrost	$7.00*AV+398$	20% more efficient than NAECA or ($5.6*AV+318.4$)	20% more efficient than NAECA or ($5.6*AV+318.4$)
13. Compact Refrigerator-Freezers--automatic defrost with top-mounted freezer and compact all-refrigerators--automatic defrost	$12.70*AV+355$	20% more efficient than NAECA or ($10.16*AV+284$)	20% more efficient than NAECA or ($10.16*AV+284$)
14. Compact Refrigerator-Freezers--automatic defrost with side-mounted freezer	$7.60*AV+501$	20% more efficient than NAECA or ($6.08*AV+400.8$)	20% more efficient than NAECA or ($6.08*AV+400.8$)
15. Compact Refrigerator-Freezers--automatic defrost with bottom-mounted freezer	$13.10*AV+367$	20% more efficient than NAECA or ($10.48*AV+293.6$)	20% more efficient than NAECA or ($10.48*AV+293.6$)
16. Compact Upright Freezers with Manual Defrost	$9.78*AV+250.8$	20% more efficient than NAECA or ($7.824*AV+200.64$)	20% more efficient than NAECA or ($7.824*AV+200.64$)
17. Compact Upright Freezers with Automatic Defrost	$11.40*AV+391$	20% more efficient than NAECA or ($9.12*AV+312.8$)	20% more efficient than NAECA or ($9.12*AV+312.8$)
18. Compact Chest Freezers	$10.45*AV+152$	20% more efficient than NAECA or ($8.36*AV+121.6$)	20% more efficient than NAECA or ($8.36*AV+121.6$)